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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/673,207

09/30/2003

Hyung-Jong Kang

101-1004

9591

38209

7590

05/06/2009

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EXAMINER

SARPONG, AKWASI

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

05/06/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/673,207	Applicant(s) KANG ET AL.	
	Examiner AKWASI M. SARPONG	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) 14-34 and 36-38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 39-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/27/2008</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1, 8, 9 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant claims in claims 1, 8, 9 and 13 "a scanning and/or printing apparatus" It is not clear to the examiner whether the claimed invention is a scanning unit or a printing unit or both a scanning and printing unit.

Correction is recommended.

2. Claims 2, 7, and 10 are also rejected under second paragraph of 35 U.S.C. 112 because they depend on Claims 1, 8, 9 and 13 which is rejected earlier.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-13 and 39-42 rejected under 35 U.S.C. 102(b) as being anticipated by Roosen (20020027673).

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Claim 1, Roosen discloses a scanning and/or printing apparatus (**Section 0062, Fig. 1 shows apparatus 1 that can be used for scanning and printing**) comprising:
a scanning unit (**scanner unit 3**) scanning a document and outputting a scanned result (**Section 0063, lines 1-6-hence the generated scanned image data (scanned result) is stored into memory 4**).

a storage unit (**memory 4**) storing the scanned result inputted from the scanning unit (**Section 0063, Fig. 2, El. 4- thus Memory 4 stores the generated image data (scanned result) and**

a printing unit (**Fig. 2, El. 5 or Printer 5**) reading the scanned result from the storage unit (**Memory 4**) to print the scanned result (**Section 0063-thus the generated image data is read out from memory 4 to be printed by Printer 5**).

wherein the storage unit is selectively connected to one of the scanning unit (**Section 0063, lines 2-4- thus memory 4 and scanner 3 is connected because the scanned data is flowing between the two sections**) and the printing unit (**Section 0063 lines 4-6- thus after the scanned data is stored into memory 4 then the connection is cut and a connection between memory 4 and printer 5 is active because the scanned image is read out from memory 4 into printer 5**) .

(NB: Section 0063, line 4- understand that it is after (“whereafter”) the scanned data is stored in memory 4 is when the connection between memory 4 and printer 5 becomes active and therefore the connection between memory 4 and printer 5 and scanner 3 is selective)

Claim 2, Roosen discloses wherein a first connector (Fig. 2 El, 2- thus the arrow between scanner 3 and memory set 4 shows that there is a connector between the two device) connecting the storage unit (Memory 4) to the scanning unit (scanner 3) and a second connector (Fig. 2 El, 2- thus the arrow between printer 5 and memory set 4 shows that there is a connector between the two device) connecting the storage unit to the printing unit. (NB: Understand that the arrows shown in fig. 2 indicate connection between the various components with in apparatus 1 as it is clearly discussed in Section 0075) .

Claim 3, Roosen discloses wherein the scanning unit (Fig. 2, El. 3 or Scanner 3) comprises an input/output port (NB: again Understand that where the arrows connects with the component indicates a port wherein data can be transferred back and forth as it discussed clearly in Section 0075) and a scanning control unit (Fig. 2, El. 26 or scan handler 26) outputting the scanned result to the storage unit through the input/output port and the first connector. (Section 0071- thus the scan handler also referred to as control unit is dedicated for providing scanning processes and as discussed earlier the arrow line indicates how the various components are connected).

Claim 4, Roosen discloses wherein the scanning unit further comprises a display unit (Fig. 4 or display component 4) displaying the scanned result (Section 0096-thus display screen shows the file names of image data that

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is available to be printed after it has been scanned) and a key unit (Fig. 4 El. 64 (A-E) and (65 (A-D) shows keys on the operator panel) generating at least one of a searching signal, a deleting signal, (Section 0228, lines 1-10, thus key 64C is used for aborting or cancelling or deleting a print job, therefore that key generates a deleting signal to coarse the control unit to delete the print job) and a selecting signal, (Section 0087, Lines 1-8, thus keys 64 A-E are used for selecting a function within apparatus)

and the scanning control unit (**Scan handler 26**) scrolls the scanned result displayed on the display unit according to the searching signal of the key unit, (**Section 0095, Fig. 4 El. 66A and B- thus keys 66A and B are used for scrolling back and forth in looking for a particular file to be printed**) deletes the scanned result according to the deleting signal of the key unit, (**Section 0228, lines 1-10, thus key 64C is used for aborting or cancelling or deleting a print job, therefore that key generates a deleting signal to coarse the control unit to delete the print job**) selects the scanned result according to the selecting signal of the key unit, (**Section 0087, Lines 1-8, thus keys 64 A-E are used for selecting a function within apparatus**)

and generates a control signal to control the display unit to display the scanned result. (**Section 0096-thus display screen shows the file names of image data that is available to be printed after it has been scanned**).

Claim 5, Roosen discloses wherein the printing unit comprises: an input/output port **(NB: again Understand that where the arrows connects with the component indicates a port wherein data can be transferred back and forth as it is discussed clearly in Section 0075)** and a printing control unit **(Fig. 2, El. 25, or print handler)** reading the scanned result inputted from the storage unit through the input/output port **(Section 0063, lines 1-9- thus the scanned or generated image data is read from memory 4 by printer 5)** and the second connector to print the scanned result. **(NB: Understand that the arrows shown in fig. 2 indicate connection between the various components with in apparatus 1 as it is clearly discussed in Section 0075) .**

Claim 6, Roosen discloses wherein the printing unit further comprises a display unit **(Fig. 4 or display component 4)** displaying the scanned result read from the storage unit and inputted through the input/output port **(Section 0096-thus display screen shows the file names of image data that is available to be printed after it has been scanned)** and a key unit generating at least one of a searching signal, a deleting signal, **(Section 0228, lines 1-10, thus key 64C is used for aborting or cancelling or deleting a print job, therefore that key generates a deleting signal to coarse the control unit to delete the print job)** and a selecting signal, **(Section 0087, Lines 1-8, thus keys 64 A-E are used for selecting a function within apparatus)**
and

the printing control unit (**Print handler 25**) scrolls the scanned result displayed on the second display unit according to the searching signal of the key unit, (**Section 0095, Fig. 4 El. 66A and B- thus keys 66A and B are used for scrolling back and forth in looking for a particular file to be printed**) deletes the scanned result according to the deleting signal of the key unit, (**Section 0228, lines 1-10, thus key 64C is used for aborting or cancelling or deleting a print job, therefore that key generates a deleting signal to coarse the control unit to delete the print job**) selects the scanned result according to the selecting signal of the key unit, (**Section 0087, Lines 1-8, thus keys 64 A-E are used for selecting a function within apparatus**) and generates a control signal to control the display unit to display the scanned result. (**Section 0096-thus display screen shows the file names of image data that is available to be printed after it has been scanned**).

Claim 8 Roosen discloses a method of a scanning and/or printing apparatus (**Section 0062, Fig. 1 shows apparatus 1 that can be used for scanning and printing**), the method comprising causing a storage unit (**memory 4**) to be connected to a scanning unit (**scanner unit 3**) scanning a document and outputting a scanned result. (**Section 0063, lines 1-6-hence the generated scanned image data (scanned result) is stored into memory 4**).

storing the scanned result inputted from the scanning unit into the storage unit. (**Section 0063, Fig. 2, El. 4- thus Memory 4 stores the generated image data (scanned result)**)

causing the storage unit to be directly connected to a printing unit reading the scanned result from the storage unit. **(Section 0063-thus the generated image data is read out from memory 4 to be printed by Printer 5 and therefore it is directly connected).**

and printing the scanned result read from the storage unit in the printing unit. **(Section 0063- the image data is printed out by printer 5 after it has been read out from memory 4).**

wherein the storage unit is selectively connected to one of the scanning unit **(Section 0063, lines 2-4- thus memory 4 and scanner 3 is connected because the scanned data is flowing between the two sections)** and the printing unit **(Section 0063 lines 4-6- thus after the scanned data is stored into memory 4 then the connection is cut and a connection between memory 4 and printer 5 is active because the scanned image is read out from memory 4 into printer 5) .**

(NB: Section 0063, line 4- understand that it is after (“whereafter”) the scanned data is stored in memory 4 is when the connection between memory 4 and printer 5 becomes active and therefore the connection between memory 4 and printer 5 and scanner 3 is selective)

Claim 9, Roosen discloses a scanning and/or printing apparatus **(Section 0062, Fig. 1 shows apparatus 1 that can be used for scanning and printing),** comprising: a scanning and/or printing unit **(apparatus 1 has scanner 3 and printer 5 as clearly**

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shown in Fig. 2) scanning a document and printing the scanned result **(Section 0063- thus scanner 3 scans the image placed on the flatten and stores the image data in memory 4)** and a storage unit **(Storage unit 20 and memory 4 are storage units for storing scanned or generated images)** shown in storing the scanned result inputted from the scanning and/or printing unit **(Apparatus 1 has a scanning and printing unit)** and **(Section 0063- thus the generated image data is read out from memory 4 to be printed by Printer 5)** wherein the scanning and/or printing unit prints the scanned result read from the storage units. **(Section 0063- thus printer 5 after the image data has been scanned and stored in memory 4, prints the image data).**

disclose a plurality of storage units which can be connected to apparatus 1. **(Fig. 2 shows clearly disk 20 Memory 4 which are all connected within apparatus 1)**

Claim 10, Roosen discloses wherein the scanning and/or printing unit **(apparatus 1 includes both a scanning and a printing unit)** comprises a plurality of connectors connecting corresponding ones of the storage units to the scanning and/or printing unit. **(Fig. 2 shows clearly disk 20 Memory 4 which are all connected within apparatus 1)**

Claim 11, Roosen discloses wherein the scanning and/or printing unit **(Fig. 2, El. 3 or Scanner 3)** further comprises

an input/output port **(NB: again Understand that where the arrows connects with the component indicates a port wherein data can be transferred back and**

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forth as it discussed clearly in Section 0075) and a scanning/printing control unit **(Fig. 2 El. 6 or copy controller)** outputting the scanned result to the storage units through the input/output port and corresponding ones of the connectors, **(Section 0071- thus the copy controller also referred to as control unit is dedicated for providing scanning and printing processes and as discussed earlier the arrow line indicates how the various components are connected).**

and printing the scanned result inputted from the storage units through the input/output port and the corresponding ones of the connectors. **(Section 0063- the scanned image data is printed by printer-5)**

Claim 12, Roosen discloses wherein the scanning and/or printing control unit further comprises a display unit **(Fig. 4 or display component 4)** displaying the scanned result scanned from the document and read and inputted from the storage units through the input/output port, **(Section 0096-thus display screen shows the file names of image data that is available to be printed after it has been scanned)**

and a key unit generating at least one of a searching signal, a deleting signal, **(Section 0228, lines 1-10, thus key 64C is used for aborting or cancelling or deleting a print job, therefore that key generates a deleting signal to coarse the control unit to delete the print job)**and a selecting signal, (**Section 0087, Lines 1-8, thus keys 64 A-E are used for selecting a function within apparatus)**

and the scanning control unit scrolls the scanned result displayed on the display unit according to the searching signal of the key unit, **(Section 0095, Fig. 4 El. 66A and**

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B- thus keys 66A and B are used for scrolling back and forth in looking for a particular file to be printed) deletes the scanned result according to the deleting signal of the key unit, **(Section 0228, lines 1-10, thus key 64C is used for aborting or cancelling or deleting a print job, therefore that key generates a deleting signal to coarse the control unit to delete the print job)** selects the scanned result according to the selecting signal of the key unit, **(Section 0087, Lines 1-8, thus keys 64 A-E are used for selecting a function within apparatus).**

and generates a first control signal to control the display unit to display the scanned result scanned from the document **(Section 0096-thus display screen shows the file names of image data that is available to be printed after it has been scanned)** and a second control signal to control the display unit to display the scanned result and inputted from the storage units through the input/output port. **(Section 0096-thus display screen shows the file names of image data that is available to be printed after it has been scanned).**

NB: Understand that the scanned result scanned from the document is the same as the scanned result stored in the memory 4 since document scanned are stored into memory 4.

Claim 13, Roosen discloses a method of a scanning and/or printing apparatus, the method comprising scanning a document in a scanning and/or printing unit **(Section 0063-thus the scanning unit is used for scanning images or documents placed on the platen)** storing a scanned result in a plurality of storage units; **(Section 0063 thus**

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the generated image data is stored into memory-4) reading the scanned result from the storage units and printing the scanned result read from the storage unit. (Section 0063: thus the stored data is eventually read or retrieved by printer-5 and printed).

Claim 39, Roosen discloses a scanning and printing apparatus, comprising a main body (**Fig. 1 shows the main body of apparatus 1**) a scanning unit disposed in the main body scanning a document to output a scanned result , (**Section 0063, Fig. 2 el. 3 shows a scanner 3 which is in apparatus 1**) a printing unit disposed in the main body printing the scanned result; (**Section 0063, Fig. 2 El. 5 shows a scanner 3 which is in apparatus 1**) and a storage unit (**Memory-4**) selectively connected to one of the scanning unit (**Section 0063, lines 2-4- thus memory 4 and scanner 3 is connected because the scanned data is flowing between the two sections**) and the printing unit (**Section 0063 lines 4-6- thus after the scanned data is stored into memory 4 then the connection is cut and a connection between memory 4 and printer 5 is active because the scanned image is read out from memory 4 into printer 5**) .

(NB: Section 0063, line 4- understand that it is after (“whereafter”) the scanned data is stored in memory 4 is when the connection between memory 4 and printer 5 becomes active and therefore the connection between memory 4 and printer 5 and scanner 3 is selective)

Claim 40, Roosen discloses wherein the storage unit is directly attached to the scanning unit without interference of a processing unit disposed outside of the scanning

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and printing apparatus. **(Section 0063-thus Memory 4 is directly attached to scanner 3 and printer 5).**

Claim 41, Roosen discloses wherein the storage unit is detachably connected to the main body. **(Section 0063-thus Memory 4 is directly attached to scanner 3 and printer 5).**

Claim 42, Roosen discloses wherein the storage unit is an external storage unit, **(Memory-4)** and a controller connected to the main body for detecting an attachment states of the external storage unit, **(Section 0071- thus the copy controller also referred to as control unit is dedicated for providing scanning and printing processes and as discussed earlier the arrow line indicates how the various components are connected).**

and for storing the scanned result in at least one of the external storage unit and an internal storage unit according to the detected attachment state of the external storage unit. **(Section 0063-thus printer 5 after the image data has been scanned and stored in memory 4, prints the image data).**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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1. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Roosen (20020027673) in view of Chen (7019869)

Claim 7, Roosen does not disclose wherein the storage unit comprises a universal serial bus (USB) flash memory stick.

Chen discloses wherein the storage unit comprises a universal serial bus (USB) flash memory stick. **(Col. 6 lines 4-10, Fig. 4, El. 471 and 481- thus El. 471 and 481 shows a USB interface)**. Therefore it will be obvious to one ordinary skilled in the art, at the time the invention was made to modify Roosen's in view of Shaw's memory 4 with Chen's USB interface so that any serial bus adapted device can be used by the apparatus.

Response to applicant's argument:

Response to Arguments

2. Applicant's arguments filed 02/02/2009 have been fully considered but they are not persuasive.

Regarding claims 1 and 39, Applicant argue that the cited reference fails to teach "the storage unit is selectively connected to one of the scanning unit and the printing unit,"

In reply Examiner respectfully disagrees because Roosen discloses wherein the storage unit is selectively connected to one of the scanning unit **(Section 0063, lines**

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2-4- thus memory 4 and scanner 3 is connected because the scanned data is flowing between the two sections) and the printing unit (Section 0063 lines 4-6- thus after the scanned data is stored into memory 4 then the connection is cut and a connection between memory 4 and printer 5 is active because the scanned image is read out from memory 4 into printer 5) .

(NB: Section 0063, line 4- understand that it is after (“whereafter”) the scanned data is stored in memory 4 is when the connection between memory 4 and printer 5 becomes active and therefore the connection between memory 4 and printer 5 and scanner 3 is selective)

In regard to claim 8, applicants argue that the cited references fail to teach “Causing the storage unit to be directly connected to a printing unit.

In reply, Examiner respectfully disagree because Roosen discloses clearly in section 0063 that the stored image data is read out from storage to be printed and therefore it is directly read form storage.

Dependent claims 2-7, 10-12, 40 and 41 are also rejected for the same reasons discussed above for the independent claims 1, 9 and 39.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AKWASI M. SARPONG whose telephone number is (571)270-3438. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMS
04/24/2009
/King Y. Poon/
Supervisory Patent Examiner, Art Unit 2625

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